

Aviation Weather Center (AWC)

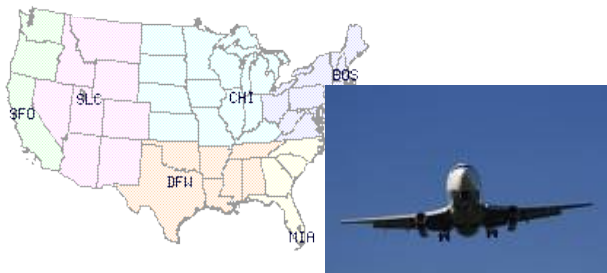
NWS Aviation Weather Center

The Aviation Weather Center delivers consistent, Timely and Accurate weather information for the world airspace system. It is a team of highly skilled people dedicated to working with customers and partners to enhance safe and efficient flight. Go to <http://aviationweather.gov> for more information

"TAFS produced by the local NWS office are an integral part of the Aviation Community"

AWC Aviation Digital Data Service (ADDS)

The Aviation Digital Data Service (ADDS) makes available to the aviation community text, digital and graphical forecasts, analyses, and observations of aviation-related weather variables. ADDS is a joint effort of NCAR Research Applications Program ([RAP](#)), Global Systems Division ([GSD](#)) of NOAA's Earth System Research Laboratory ([ESRL](#)), and the National Centers for Environmental Prediction ([NCEP](#)) Aviation Weather Center ([AWC](#)). Go to <http://adds.aviationweather.gov/> for more information.



FLIGHT SERVICES

SAFETY Y SATISFACTION Y SERVICE

"The leading contributing factor to General Aviation accidents is Weather"

The NWS and Flight Services

The National Weather Service along with other Aviation related offices in the NWS, the FAA and the private sector, provide a variety of aviation weather products and services that are designed to create awareness of hazardous flying conditions and help in maintaining efficient air traffic movement. This includes commercial and general aviation concerns for large and small airports. Services include TAF's, AIRMETS, SIGMETS, and detailed convective forecasts. Services are provided from the NWS by local Weather Forecast Offices (WFO's), Central Weather Service Unit (CWSU), and Aviation Weather Centers (AWC). Information is also available for FAA Flight Service Centers and Private Companies.

Flight Service Centers

The leading contributing factor to General Aviation accidents is weather. Pilot Weather Briefers located at Flight Service Centers across the country are trained to help you avoid dangerous situations.

For the **WX-BRIEF** line (800-992-7433)

Or go to <https://www.afss.com>

National Weather Service.

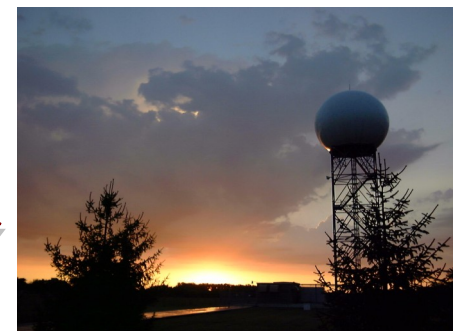
5805 W. Hwy EE
Springfield, MO. 65802-8400

Phone: 417-864-8535
E-mail: Gene.Hatch@noaa.gov



National Weather Service.

Aviation Services



Aviation Services from the National Weather Service

National Weather Service



Meteorologists are on-staff, 24 hours a day, seven days a week. In addition to providing public forecasts, watches, warnings, and advisories, we also provide services for customers in the aviation

community. In fact, we have at least one fore-

caster dedicated to serving aviation interests on-shift at all times.

Terminal Aerodrome Forecasts (TAFs)



Our primary aviation responsibility at the National Weather Service Forecast Office in Springfield, MO. is to issue Terminal Aerodrome Forecasts (TAFs). Routine TAFs are valid for a 24-hour period and issued four times daily: **00Z, 06Z, 12Z, and 18Z**, and are amended as conditions require. TAFs will include information about wind speed and direction, visibility, present weather, such as fog or thunderstorms if applicable, cloud cover and heights, and low-level wind shear.

Weather Data

The NWS uses ASOS (Automated Surface Observing System) data in conjunction with radar and PIREP's to keep track of changing weather conditions. For more information go to:

<http://adds.aviationweather.gov>

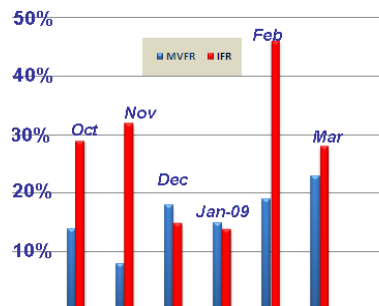


"Significant Improvements over models have been seen for the NWS Springfield TAF's"

Improving Forecasts Beyond the Models

National Weather Service forecasters use several models to aid in aviation forecasts. While these models produce

SGF PERCENT IMPROVEMENT Vs LAMP



good output, it is the understanding of local effects, weather patterns, and terrain that the forecasters use in conjunction with the models to provide superior TAF's for the Ozarks.

Aviation Forecast Discussion

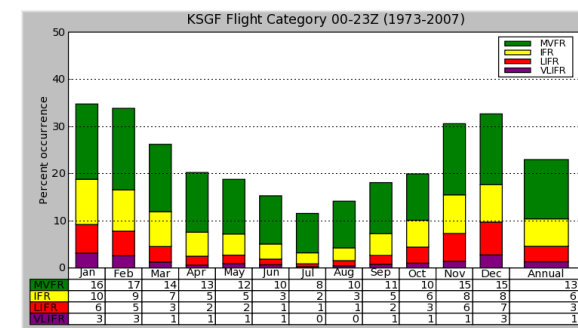
This text discussion explains the forecasters reasoning behind the TAF. It also provides an overview of the expected weather around the TAF sites and the confidence the forecaster has in the forecast. Find Aviation discussions at <http://aviationweather.gov/testbed/afd> and click on the map to view the latest discussion for that area.



"You haven't seen a tree until you've seen its shadow from the sky - Amelia Earhart"

Aviation Climatology

Monthly and annual aviation climatology is available for most airports across the country. For the Springfield NWS office, Climatological in-



formation is available for Springfield and Joplin.

Information such as this is available online at

<http://www.crh.noaa.gov/sgf/>

[n=aviation forecasts](#). The plots are broken down for each month of the year, by flight category where visibility, ceiling, and a combination of the two reasons for the restriction.

In addition, information on wind speed and direction climatology is available by month. The Wind Rose displays the distribution of wind speed and direction for all the hours of the day for each month of the year.

